

**AMENDMENT TO THE CLAIMS**

42. (Original) A method for selecting advantageous growth conditions for embryo development comprising:
  - a) determining RNA expression profiles for staged embryos under control culture conditions;
  - b) altering culture conditions;
  - c) determining RNA expression profiles for staged embryos under altered culture conditions; and
  - d) correlating culture change to developmental effect in embryo.
43. (Original) The method of claim 42, wherein conditions are selected which produce RNA expression profiles most closely approximating late-stage embryo profiles.
44. (Original) The method of claim 42, wherein the culture conditions are altered by operatively linking one or more stage-specific embryo promoter(s) to one or more sense or antisense nucleic acid molecules.
45. (Currently amended) The method of claim 42, wherein the culture conditions are altered by operatively linking ~~one more the~~ stage-specific embryo promoter[[s]] ~~selected from~~ SEQ ID NO[[S]]: 328[-334] to one or more sense or antisense nucleic acid molecules.
46. (Original) The method of claim 42, wherein the change in expression profiles is correlated by a relational database.